

## FUEL INJECTION VALVE

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**Inventor:** HOHL GUENTHER (DE); KEIM NORBERT (DE)

**Applicant:** BOSCH GMBH ROBERT (DE); HOHL GUENTHER (DE); KEIM NORBERT (DE)

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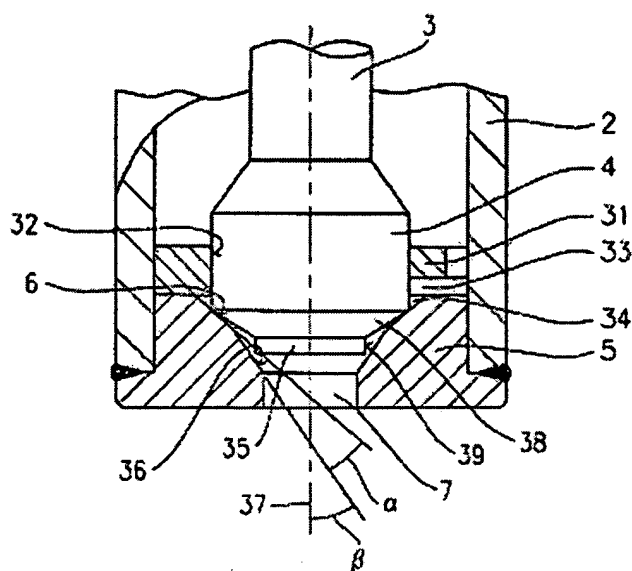
**Cited documents:**

GB2185070  
DE932209  
US4523719  
DE3710467

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**Abstract of WO02059477**

The invention relates to a fuel injection valve for fuel injection systems of internal combustion engines, comprising a valve closing body (4) that is functionally linked with a valve needle (3) and that interacts with a valve face (6) arranged in a recess of a valve seat body (5) to give a sealing seat, and at least one injection opening (7) arranged in the valve seat body (5). The recess of the valve seat body (5) defines a second surface (36) between the valve face (6) and the injection opening (7) which surface includes a more acute angle (  $\beta$  ) with the median axis (37) of the fuel injection valve (1) than the valve face (6). A closing body projection (35) disposed on the down-stream end of the valve closing body (4) has a peripheral surface (39) that forms an obtuse angle with the adjoining contour of the valve closing body (4).



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